





PAGER Version 1

10,000

100,000

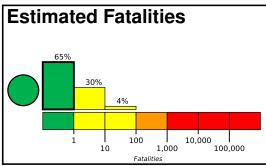
0

X+

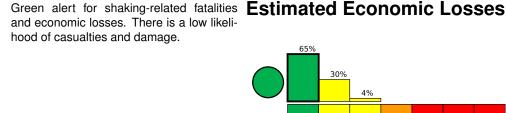
1,000

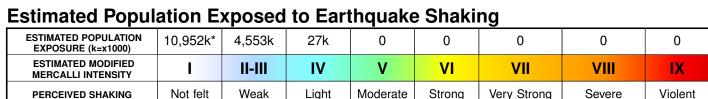
Created: 4 weeks, 0 days after earthquake

M 4.0, 14 km SSW of Westley, CA Origin Time: 2023-09-19 00:15:32 UTC (Mon 17:15:32 local) Location: 37.4453° N 121.2467° W Depth: 5.0 km



and economic losses. There is a low likeli-





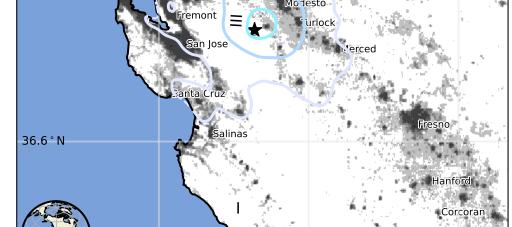
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

37.8°N

5000 122.1 120.8° Roseville acramento



PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

population per 1 sq. km from Landscan **Structures**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2003-12-22	203	6.6	VI(8k)	2
1980-01-24	51	5.8	VII(35k)	1
1989-10-18	59	6.9	VIII(109k)	62

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org				
MMI	City	Population		
IV	Patterson	20k		
Ш	Riverdale Park	1k		
Ш	West Modesto	6k		
Ш	Bret Harte	5k		
Ш	Shackelford	3k		
Ш	Bystrom	4k		
II	San Jose	946k		
I	San Francisco	805k		
I	Sacramento	466k		
1	Carson City	55k		
1	Fresno	495k		

bold cities appear on map.

(k = x1000)